

# VisRate.NET 1.0

## RELEASE NOTES

This memo contains information on the new changes and features that are contained in VisRate.NET 1.0. Below is a table of contents to summarize what the said changes and features are.

VisRate.NET BETA version was made available to anyone who was interested fall of 2005. BETA testing is complete and CRAB is now ready to release the first official VisRate.NET application, VisRate.NET 1.0.

VisRate.NET 1.0 is compatible with a future version of Mobility that will offer an export to VisRate feature. This feature will create a VisRate database complete with county road numbers and road names. See Section 3 for more information.

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## 1. REPORTS

### I. Flexible (Ft)

The Flexible (Ft) report shows the estimated amount of the distress type that was recorded before it was converted to a percentage of the segment. The report maintains the look of the original Flexible report.

The amounts are estimated because of the rounding that takes place when calculating the percentage of a road each distress type consumes. The report is accurate to within roughly five feet, with the exception of distresses that recorded at one percent of the segment.

Distresses that recorded at one percent may have actually been much less than one percent. The rounding process moves any value between zero and one to one percent, and because of this a distress, like low-alligator cracking, may have been recorded as 20 feet for a half mile segment and stored as one percent. When the percentage is backed out, the report will show 53 feet which is actually one percent of alligator cracking for a half mile segment.

### II. Rigid (Ft)

The Rigid (Ft) report has the same functionality of the Flexible (Ft) report and maintains the same look as the original Rigid report.

## 2. DELETE RATINGS FORM

The Delete Ratings Form was added to provide an interface within the application to remove any segment ratings that the user does not want sent for conversion into Mobility.

This form has two data grids: The 'Rated Segments' data grid, and the 'Deleted Segments' data grid. The 'Rated Segments' data grid contains all segment ratings that exist in the VisRate database.

To remove a segment, highlight the entire record by clicking to the left of the record that needs to be removed. Multiple records can be highlighted at once by clicking to the left of a record then, while holding down the mouse button, move your mouse up or down to highlight additional record. When the desired records have been highlighted, press the 'Delete' key on the keyboard. The records will then be removed from the data grid. To finalize this process click the 'Submit' button located below the 'Rated Segments' data grid.

When the records are removed they are temporarily stored in memory. These deleted records are then displayed in the 'Deleted Segments' data grid. This allows the user to visually see what records were removed. Located at the bottom of the 'Deleted Segments' data grid is a 'Undo' button. If records have been deleted mistakenly, click the 'Undo' button and all deleted records will be moved back to the 'Rated Segments' data grid.

Finally, when all desired changes have been made, close the form by clicking the 'Close' button at the bottom right corner of the form. **When the form closes all changes are final.**

## 3. MOBILITY TO VISRATE EXPORT

VisRate.NET 1.0 is compatible with a future version of Mobility that will offer an export to VisRate feature. This feature will create a VisRate database complete with a counties road numbers and road names and save it to the ftp site. The user can then copy the VisRate database from the ftp site and paste it into their VisRate.NET 1.0 folder on the local machine. After the previous steps are complete the road numbers and road names will be available when using VisRate.NET 1.0.

#### **4. CORE DISTRESS CALCULATIONS**

##### **I. Flexible**

Transverse, Longitudinal:

$$\text{Amount} / (\text{length} * 5280) * 100$$

Alligator, Patching:

$$\text{Amount} / (\text{length} * 5280 * 2) * 100$$

##### **II. Rigid**

Panel Cracking, Patching:

$$\text{Amount} / (\text{length} * 460) * 100$$

Joint Cracking, Faulting and Settlement, Pumping and Blowing:

$$\begin{aligned} &\text{Amount} / ((2.5 * (\text{length} * 460)) + (\text{Low-Panel Cracking Count}) + (2.5 * \text{Med-Panel Cracking} \\ &\text{Count}) + \\ &(4 * \text{High-Panel Cracking Count})) \end{aligned}$$